

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION OF THE INVENTORS

FOR UTILITY PATENT APPLICATION (37 CFR 1.63)

First Named Inventor: Raghavan et al. Attorney Docket Number: D-472A.

Title: Code Division Multiple Access Enhanced Capacity System.

I, (We) hereby declare that each inventor's residence, mailing address, and citizenship are as stated below next to their name. I (We) believe the inventor(s) named below to be the original and first inventor(s) of the subject matter that is claimed and for which a patent is sought on the above entitled invention.

This declaration is submitted as an original filing with the specification attached hereto, including:

☐ Preliminary Amendment Filed herewith, and/or

☐ Application Amendment Filed on: \_\_\_\_\_, \_\_\_\_\_, and  
having an Application Serial No.: \_\_\_\_\_.

I (We) hereby state that I (we) have reviewed and understand the contents of the specification identified above, including the claims, as amended by any amendment specifically referred to above.

I (We) acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I (We) hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE PAGE OF THE DECLARATION OF THE INVENTORS

NAME, ADDRESS, and SIGNATURE OF THE SOLE OR FIRST INVENTOR:

PRINTED NAME: Srinivasa H. Raghavan  
First Last

H.R.S. Raghavan, Date: 2/10/04.  
Signature

A U.S Citizen. Address: 6740 Kings Harbor Drive  
Street Address

Rancho Palos Verdes, California, 90275, USA;  
City State Zip Country

NAME, ADDRESS, and SIGNATURE OF THE SECOND INVENTOR:

PRINTED NAME: Jack K. Holmes  
First Last

Jack K. Holmes, Date: 2/10/04.  
Signature

A U.S Citizen. Address: 29662 Ridgeway Drive  
Street Address

Agoura Hills, California, 91301, USA;  
City State Zip Country

NAME, ADDRESS, and SIGNATURE OF THE THIRD INVENTOR:

PRINTED NAME: Kristine P. Maine  
First Last

Kristine P. Maine, Date: 2.17.04.  
Signature

A U.S Citizen. Address: 272 Calle de Madrid  
Street Address

Redondo Beach, California, 90277, USA;  
City State Zip Country

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

POWER OF ATTORNEY IN RE PATENT APPLICATION OF:

First Named Inventor: Raghavan et al. Attorney Docket Number: D-472A

Title: Code Division Multiple Access Enhanced Capacity System.

Application No.: Unassigned, Group No.: Unassigned.

Application Filed: Herewith, Examiner: Unassigned.

TO: Commissioner for Patents Washington, DC 20231

THE AEROSPACE CORPORATION, having become the owner of all rights in and to the above-identified application by virtue of an Assignment executed by the inventor(s): Raghavan, Holmes, Maine, concurrently with the execution of this application, said Assignment is being submitted herewith for recording; hereby revokes all prior powers and now appoints:

Derrick Michael Reid, Registration No. 32,096, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and before competent International authorities.

SEND CORRESPONDENCE TO:  
Carole A. Mulchinski, M1/040  
The Aerospace Corporation  
2350 East El Segundo Blvd.  
El Segundo, CA 90245 USA

DIRECT TELEPHONE CALLS TO:  
(310) 336-6709

DIRECT FACSIMILIES TO:  
(310) 336-0285

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 2/11/04 Signature: Robert Donald Matthews

By: Robert Donald Matthews  
Title: Assistant General Counsel  
For: The Aerospace Corporation  
The Assignee

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION EXPRESS MAIL CERTIFICATE

First Named Inventor: Raghavan et.al. Attorney Docket Number: D-472A.

Title: Code Division Multiple Access Enhanced Capacity System.

Express Mail Label Number: EU436328598.

Date of Deposit: \_\_\_\_\_.

Application No.: Unassigned, Group No.: Unassigned.

Filing Date: Unassigned, Examiner: Unassigned.

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE:

I hereby state that the following papers:

Application Transmittal	1 page
Application Fee Transmittal	1 page with a duplicate copy
Declaration of the Inventor(s)	2 pages
Power of Attorney	1 page
Assignment Transmittal	1 page
Assignment of Patent Rights	2 pages
Express Mail Certificate	1 Page
Patent Application	26 pages (Specification, Claims, Abstract)
Drawing Sheets	4 sheets
Mail Room Return Postcard	1 Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. section 1.10, on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Sharon A. West.  
Name of Person mailing the above referenced papers

Sharon A. West,  
Signature of person mailing papers

2, 10, 04.  
Date of Mailing

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT TRANSMITTAL ACCOMPANYING A NEW PATENT APPLICATION

First Named Inventor: Raghavan et al. Attorney Docket Number: D-472A

Title: Code Division Multiple Access Enhanced Capacity System

To: The Director of Patents and Trademarks, Washington, DC 20231  
Attention: Assignment Branch

Dear Sir: Please record the enclosed assignment.

1. IDENTITY OF PARTY MAKING TRANSFER:

Inventor(s): S. H. Raghavan, J. K. Holmes, K. P. Maine.

2. IDENTITY OF PARTY TO WHOM TRANSFER IS MADE :

Internal Address: The Aerospace Corporation  
P.O. Box 92957

Los Angeles, CA 90009

Street Address: The Aerospace Corporation  
2350 East El Segundo Boulevard  
El Segundo, CA 90245

3. NATURE OF CONVEYANCE: Assignment

4. EXECUTION DATES:

The enclosed assignment was executed on 2/10/04.

The above mentioned new application filed with the enclosed assignment  
was executed on 02 , 10 , 04 .

5. APPLICATIONS AND PATENTS INVOLVED:

The above mentioned new application is the only application or patent  
involved.

6. FEE DUE: \$40.00 The Commissioner for Patents is authorized to charge  
assignee's deposit account for the assignment recording fee.

7. DEPOSIT ACCOUNT NUMBER: 01-0428 for The Aerospace Corporation.

8. ADDRESS TO RETURN ASSIGNMENT AFTER RECORDING BY THE PTO:

Carole A. Mulchinski, M1/040  
Office of the General Counsel  
The Aerospace Corporation  
P.O. Box 92957  
Los Angeles, CA 90009

9. SIGNATURE AND STATEMENT:

To the best of my knowledge and belief, the foregoing information is  
true and correct.

Respectfully Submitted,



Derrick Michael Reid  
Registration No. 32,096

The Aerospace Corporation  
P.O. Box 92957 M1/040  
Los Angeles, CA, 90009 USA  
Telephone: (310) 336-6708

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT OF PATENT RIGHTS OF AN INVENTION

FOR U.S. Rights and Foreign Rights for a U.S. Patent Application

First Named Inventor: Raghavan et al. Attorney Docket Number: D-472A

Title: Code Division Multiple Access Enhanced Capacity System.

WHEREAS: In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

THE ASSIGNOR(S):

1st Named Inventor: Srinivasa H. Raghavan.  
Street Address: 6740 Kings Harbor Drive  
City, State, Zip, USA: Rancho Palos Verdes, CA 90275, USA .

2nd Named Inventor: Jack K. Holmes.  
Street Address: 29662 Ridgeway Drive  
City, State, Zip, USA: Agoura Hills, CA 91301, USA .

3rd Named Inventor: Kristine P. Maine.  
Street Address: 272 Calle de Madrid  
City, State, Zip, USA: Redondo Beach, CA 90277, USA .

HEREBY sells, assigns, grants, and transfers unto the ASSIGNEE: The Aerospace Corporation, M1/040, 2350 East El Segundo Boulevard, El Segundo, CA 90245, USA, and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title, and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the above entitled invention, and which is found in (37 C.F.R. Section 3.21) U.S. patent application executed herewith and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 2/10/04 Signature: H. R. S. Raghavan.

1st Named Inventor's Name: Srinivasa H. Raghavan.

Date: 2/10/04 Signature: Jack K Holmes.

2nd Named Inventor's Name: Jack K. Holmes.

Date: 2/11/04 Signature: Kristine P. Maine.

3rd Named Inventor's Name: Kristine P. Maine.